

Substance Details Report

January 10, 2017

Core Metadata

Substance Type	Chemical Substance
EPA Registry Name	4-Hydroxy-4-methyl-2-pentanone
EPA Registry Name List	Chemical Identification
Systematic Name	2-Pentanone, 4-hydroxy-4-methyl-
Systematic Name List	Chemical Abstracts Index Name
Preferred Acronym	
CAS Number	123-42-2
EPA Identification Number	
TSN Number	
Kingdom	
ICTVDB	
Molecular Formula	C6H12O2
Molecular Weight	116.16
Comment/Description	

Internal Tracking Number	32987
Substance Status	Approved

Definition

Classifications

Associated Identifiers

There is no information about former or incorrectly used identifiers.

Structure

Notation	Notation Type
<chem>O=C(CC(O)(C)C)C</chem>	SMILES

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Synonym

Below are the EPA applications/systems, statutes/regulations, or other sources that track or regulate this substance. This table shows how each list refers to the substance.

Statutes/Regulations

Statutes/Regulations	Synonym	Synonym Quality	Effective Date	End Date
2016 CDR TSCA Inv	4-Hydroxy-4-methyl-2-pentanone	Valid		
CAA 111	Diacetone alcohol	Valid	01/05/1981	
FIFRA-Inerts	Diacetone alcohol	Valid		
SARA 110	Diacetone Alcohol	Valid	10/26/1989	10/17/1991
SARA 110	4-Hydroxyl-4-methyl-2-pentanone	Misspelled	10/26/1989	10/17/1991
SARA 110	Diacetone-Alcohol	Valid	10/26/1989	10/17/1991
TSCA 8A PAIR	Diacetone alcohol	Valid	08/04/1995	
TSCA 8D HSDR (d)	Diacetone alcohol	Valid	08/04/1995	08/04/2005
TSCA Inv	2-Pentanone, 4-hydroxy-4-methyl-	Valid		

EPA Applications/Systems

EPA Application/System	Synonym	Synonym Quality	Effective Date	End Date
2012 CDR	2-Pentanone, 4-hydroxy-4-methyl-	Valid		
CAMEO Chemicals	Diacetone alcohol	Valid		
CERCLIS3	Diacetone alcohol	Valid		
CORR	Diacetone alcohol	Valid		
ECOTOX	4-Hydroxy-4-methyl-2-pentanone	Valid		
ECOTOX	Diacetone alcohol	Valid		
ERNS	Diacetone alcohol	Valid		
ERNS	4-Hydroxy-4-methyl-2-pentanone	Valid		
GCES	2-Pentanone, 4-hydroxy-4-methyl-	Valid		
HPVC List	2-Pentanone, 4-hydroxy-4-methyl-	Valid		
HPVIS	2-Pentanone, 4-hydroxy-4-methyl-	Valid		
ICIS-Air	Diacetone alcohol	Valid		
MTL96	2-Pentanone, 4-hydroxy-4-methyl-	Valid		
OPPIN	Diacetone alcohol	Valid		
STORET	4-Hydroxy-4-methyl-2-pentanone	Valid		

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EPA Application/System	Synonym	Synonym Quality	Effective Date	End Date
TSCATS	2-Pentanone, 4-hydroxy-4-methyl-	Valid		
WQX	4-Hydroxy-4-methyl-2-pentanone	Valid		
Other Sources				
Other Sources	Synonym	Synonym Quality	Effective Date	End Date
ATSDR	2-Pentanone, 4-hydroxy-4-methyl-	Valid		
CA Index	2-Pentanone, 4-hydroxy-4-methyl-	Valid		
CUS02	2-Pentanone, 4-hydroxy-4-methyl-	Valid		
CUS86	2-Pentanone, 4-hydroxy-4-methyl-	Valid		
CUS90	2-Pentanone, 4-hydroxy-4-methyl-	Valid		
CUS94	2-Pentanone, 4-hydroxy-4-methyl-	Valid		
CUS98	2-Pentanone, 4-hydroxy-4-methyl-	Valid		
ChemIDStd	4-Hydroxy-4-methyl-2-pentanone	Valid		
FDA	DIACETONE ALCOHOL	Unknown		
HSDB	4-Hydroxy-4-methyl-2-pentanone	Valid		
ITER	4-Hydroxy-4-methyl-2-pentanone	Valid	12/19/2014	
MTL	Diacetone alcohol	Valid	01/01/1994	
NJ-RTK-HS	Diacetone alcohol	Valid		
NTP Chemical Repository	Diacetone alcohol	Valid		
NTP Chemical Repository	DAA	Ambiguous		
SIDS	Diacetone alcohol	Valid		
Ad Hoc List				
There are no Synonyms of this type.				
EPA Synonyms				
There are no Synonyms of this type.				

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Component Of

Systematic Name	Synonym	CAS Number	TSN	EPA Identifier	Effective Date	End Date
Volatile organic compounds	VOCs			E761346		

Related References

<http://www.osha.gov/dts/sltc/methods/organic/org007/org007.html>
http://www.osha.gov/dts/chemicalsampling/data/CH_231700.html
<http://nj.gov/health/eoh/rtkweb/documents/fs/0606.pdf>
<http://yosemite.epa.gov/oppts/epatscat8.nsf/ReportSearch?OpenAgent&CASNumber=123-42-2>
<http://www.chem.unep.ch/irptc/sids/OECDIDS/123422.pdf>
<http://chem.sis.nlm.nih.gov/chemidplus/direct.jsp?regno=123-42-2&result=advanced>
<http://fdasis.nlm.nih.gov/srs/srsdirect.jsp?regno=Q7WP157PTD>
<http://chem.sis.nlm.nih.gov/chemidplus/direct.jsp?regno=0000123422>
https://iter.ctc.com/publicURL/p_report_view_list.cfm?crn=123%2D42%2D2